

### Acco Babcock Inc.

**Material Handling Group** 

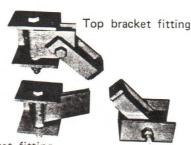
Issued 3-1-85 Supersedes 1-4-82

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#### **SERIES 411**

WALL BRACKET JIB CRANE FITTINGS CAPACITIES: 1/2 TO 5 TONS

SPANS: 8 TO 30 FEET

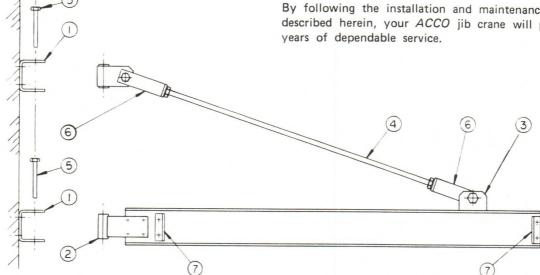


Bottom bracket fitting

Beam bracket fitting

Thank you for choosing ACCO jib cranes to solve your material handling needs. The excellent design and heavy duty construction of ACCO jib cranes provide a superior quality product that will offer years of long term value. All ACCO jib cranes are pre-engineered for powered hoist operation. The hoist and trolley allowance is 15% of the capacity.

By following the installation and maintenance procedures described herein, your ACCO jib crane will provide many years of dependable service.



1. Bolt brackets 1 to structurally adequate wall or column (bolts by others—see page 3 for diameter), making sure brackets are in line and plumb through holes for bolts (5).

NOTE: Buyer and user warrants that the structure in which and to which this system or equipment is to be installed is adequate to sustain the loads that will be imposed on it by said system or equipment when it is operating as intended.

2. Bolt brackets 2 and 3 to jib beam.

3. Attach tension rod 4 to clevises 6 . Two nuts and one lock washer required for each end.

4. Raise boom assembly and attach to lower wall bracket ① using bolt ⑤ supplied.

5. Attach top end of tension rod assembly to top bracket ① and beam bracket ③bolts supplied.

6. Level beam by adjusting tension rod.

7. Add hoist and trolley stops 7.

NOTE: Hardware and tie rods are supplied with complete cranes or may be purchased with fitting kits ( see page 2 and 3 for fitting kit, hardware kit, and tie rod Product Numbers).

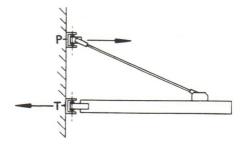
WARNING: Equipment described herein is not designed for, and should not be used for lifting, supporting or transporting humans. Failure to comply with any one of the limitations noted herein can result in serious bodily injury and/or property damage.

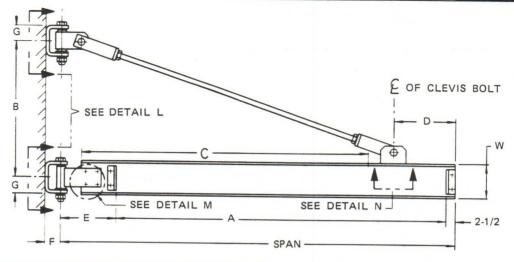
WARNING: Only competent fabrication personnel familiar with standard fabrication practices should be employed to assemble these cranes because of the necessity of properly interpreting these instructions and for the purposes of determining appropriate compatible equipment and product applications. Acco disclaims any responsibility for the quality of workmanship employed in the fabrication of a crane according to these instructions or the sufficiency of the system in which and to which this system or equipment is to be installed or the sufficiency of the system to sustain any particular load that may be imposed upon it. Contact the Material Handling Group of Acco Babcock Inc. at 1110 East Princess Street, York, Pennsylvania 17403 for additional information if necessary.

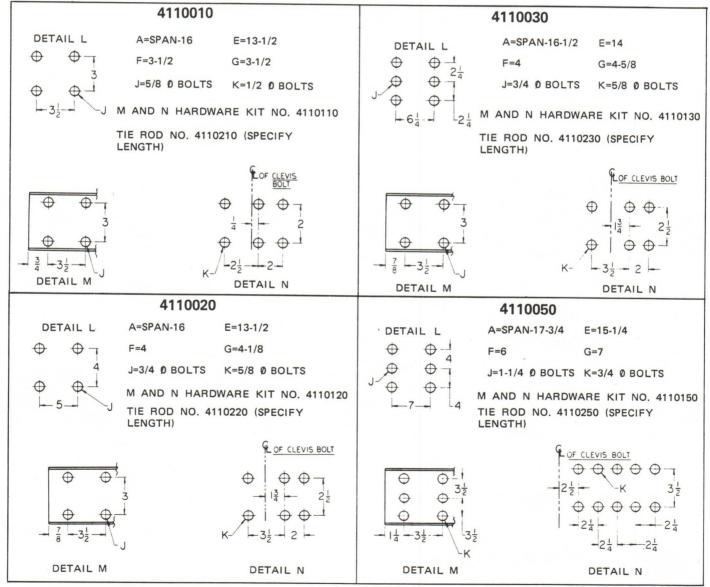
# 1/2 to 5 TONS

Capacity Tons	Span	Product Number	B(a) Bracket Centers	D	W(b) Boam	C Cap Channel Length	Tie Rod Diameter	Tie Rod Length(d)	Thrust and Pull (c) (lbs.)	Net Wt. of Crane (Approx. lbs.)	S-Beam Length
1/2	8' 10' 12' 14' 16' 18' 20' 22' 24' 26' 28' 30'	4110010	2'-9" 3'-0" 3'-9" 4'-6" 5'-6" 6'-0" 6'-6" 7'-0" 7'-6" 8'-0" 9'-0"	1'-3" 1'-6" 1'-9" 2'-0" 2'-0" 2'-0" 2'-3" 2'-6" 2'-6" 3'-0"	6 6 6 6 7 8 8c6 8c6 10c6 10c6 12c8	18'-9" 20'-6" 22'-6" 24'-0" 25'-6"	1"	6'-1'/2" 7'-10'/2" 9'-9" 11'-7'/2" 13'-10'/2" 15'-11" 17'-8'/2" 19'-9'/2" 21'-7" 23'-8'/3" 25'-4'/4" 27'-1"	3720 4420 4360 4330 4120 4400 4680 5130 5350 5810 5680 6040	265 300 335 375 410 495 600 905 975 1230 1315 1710	7'-7¾" 9'-7¾" 11'-7¾" 13'-7¾" 15'-7¾" 17'-7¾" 19'-7¾" 21'-7¾" 23'-7¾" 27'-7¾"
1	8' 10' 12' 14' 16' 18' 20' 22' 24' 26' 28' 30'	4110010	2'-9" 3'-0" 3'-9" 4'-6" 5'-6" 6'-0" 7'-0" 8'-0" 10'-0"	1'-3" 1'-6" 1'-9" 2'-0" 2'-6" 2'-6" 2'-9" 3'-6" 3'-6" 3'-6"	6 6 6 7 7 8 10 10c6 10c6 10c6 12c8 12c8	18'-3" 20'-3" 22'-0" 23'-6" 25'-6"	1"	6'-1½" 7'-10¼" 9'-9" 11'-7½" 13'-7½" 15'-5" 17'-5¼" 19'-3¼" 21'-3¼" 23'-1½" 24'-10¼"	7'-10%" 8620 300 9'-9" 8640 335 11'-7½" 8440 415 13'-7½" 8010 455 15'-5" 8450 555 17'-5¼" 8980 745 19'-3¼" 9580 1065 21'-3¼" 9890 1150 23'-1½" 10190 1230 24'-10¾" 10320 1610		7'-736" 9'-736" 11'-736" 13'-736" 15'-736" 17'-736" 21'-736" 21'-736" 25'-736" 25'-736" 29'-736"
2	8' 10' 12' 14' 16' 18' 20' 22' 24' 26' 28' 30'	4110020	2'-9" 3'-0" 3'-9" 4'-6" 5'-6" 6'-6" 7'-0" 7'-6" 8'-0" 9'-0"	1'-3" 1'-6" 1'-9" 2'-0" 2'-3" 2'-3" 2'-6" 2'-6" 3'-0" 3'-6" 3'-6"	8 8 8 8 10 10 12 12c8 12c8 12c8 12c8 12c8 12c8	18'-6" 20'-0" 21'-6" 23'-6" 26'-0"	1½"	6'-0\%" 7'-10" 9'-8\%" 11'-7\%" 13'-6\%" 15'-7\%" 17'-4\%" 19'-5\%" 21'-0\%" 22'-7\%" 24'-10" 27'-6\%"	14480 17170 16790 16590 16880 16570 17320 18320 18860 19360 18720 18220	375 435 495 550 720 795 1000 1420 1535 1650 1760 1895	7'-7'4" 9'-7'4" 11'-7'4" 15'-7'4" 15'-7'4" 17'-7'4" 21'-7'4" 23'-7'4" 25'-7'4" 27'-7'4"
3	8' 10' 12' 14' 16' 18' 20' 22' 24' 26' 28' 30'	4110030	2'-9" 3'-3" 4'-0" 4'-9" 5'-6" 6'-3" 7'-0" 7'-9" 8'-6" 9'-3" 10'-0"	1'-3" 1'-6" 1'-9" 2'-0" 2'-3" 2'-6" 2'-6" 3'-0" 3'-0" 3'-0"	5" 8 9" 10 9" 10 10 5" 10 5" 12 5" 12c8 16'-6" 12c8 18'-6" 1" 12c8 20'-0" 12c8 22'-0" 12c8 24'-0"		1½"	6'-1¼" 7'-11" 9'-9%" 11'-8¼" 13'-7" 15'-8¼" 17'-7¼" 19'-9" 21'-5" 23'-6¼" 25'-8" 27'-10½"	21600 23550 23570 23570 23530 23510 24060 24140 24220 24310 24410 23950	435 490 630 700 765 950 1340 1450 1565 1940 2065 2185	7'-6%' 9'-6%' 11'-6%' 13'-6%' 15'-6%' 17'-6%' 21'-6%' 23'-6%' 23'-6%' 27'-6%' 29'-6%'
5	8' 10' 12' 14' 16' 18' 20' 22' 24' 26' 28' 30'	4110050	3'-0" 3'-3" 4'-0" 4'-9" 5'-6" 6'-3" 7'-0" 7'-9" 8'-6" 9'-3" 10'-0"	1'-6" 1'-6" 1'-9" 2'-0" 2'-6" 3'-6" 3'-6" 3'-6" 3'-6" 3'-6"	12 12 12 12 15 15 15 15c10 15c10 15c10 15c10 15c10	15'-3" 17'-3" 19'-3" 21'-3" 23'-3" 25'-3"	2"	5'-10'4" 7'-10" 9'-7" 11'-7'4" 13'-3" 14'-11" 16'-7" 18'-8'4" 20'-10'4" 23'-0" 25'-1'4"	33000 39260 39070 38970 39180 39150 39660 39740 39850 39960 40070 39280	780 860 940 1020 1280 1385 1755 1885 2015 2145 2690 2835	7'-6¼" 9'-6¼" 11'-6¼" 13'-6¼" 15'-6¼" 17'-6¼" 21'-6¼" 23'-6¼" 25'-6¼" 27'-6¼"

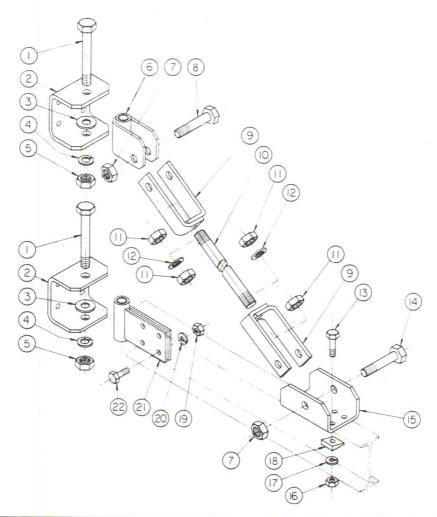
- (a) Do not deviate from "B" dimension
- (b) The "W" dimension indicates the size S-beam to be used. If a cap channel needs to be stitch welded to the top of the S-beam, the letter "C" will follow the S-beam size. The last number indicates the size of the cap channel.
- (c) The diagram to the right, details the thrust and pull forces that this jib crane applies to the supporting structure when a load is lifted. The chart above details in pounds the thrust at point T and the pull at point P. It is essential that a structurally adequate wall, column or truss exist to support the jib crane.
- (d) One tie rod required per crane. Tie rods threaded 8 inches on each end.







## 1/2 to 5 TONS



ITEM	4110010			4110020			4110030			4110050		
NO.	PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
1	03339	2	1"-8 x 9" LG HHCS	05568	2	1¼"-7 x 11" LG HHCS	03392	2	11/2"-6 x 111/2" LG HHCS	03418	2	1¾"-5 x 16"LG HHCS
2	23327	2	WALL CHANNEL	23353	2	WALL CHANNEL	23390	2	WALL CHANNEL	53402	2	WALL CHANNEL
3	03341	2	%"THK BRONZE WASHER	03365	2	1/8"THK BRONZE WASHER	03395	2	1/8"THK BRONZE WASHER	03421	2	1/8"THK BRONZE WASHER
4	03340	2	1" LOCK WASHER	03364	2	11/4" LOCK WASHER	03394	2	11/2" LOCK WASHER	03420	2	1¾" LOCK WASHER
5	03302	2	1"-8 HEX NUT	03363	2	1¼"-7 HEX NUT	03393	2	11/2"-6 HEX NUT	03419	2	1¾"-5 HEX NUT
6	53337	1	UPPER PIVOT ASSEMBLY	53360	1	UPPER PIVOT ASSEMBLY	53386	1	UPPER PIVOT ASSEMBLY	53423	1	UPPER PIVOT ASSEMBLY
7	01022	2	1"-8 NYLOCK NUT	03362	2	1¼"-7 NYLOCK NUT	03362	2	1¼"-7 NYLOCK NUT	05566	2	1¾"-5 NYLOCK NUT
8	02788	1	1"-8 x 51/2"LG HHCS	03347	1.	11/4"-7 x 7"LG HHCS	03344	1	1¼"-7 x 7"LG HHCS A-325	03424	1	1¾"-5 x 8"LG HHCS
9	53326	2	CLEVIS ASSEMBLY	53358	2	CLEVIS ASSEMBLY	53389	2	CLEVIS ASSEMBLY	53408	2	CLEVIS ASSEMBLY
10	4110210	1	1" Ø TIE ROD	4110220	1	1½" Ø TIE ROD	4110230	1	11/2" & TIE ROD	4110250	1	2" & TIE ROD
11	03302	4	1"-8 HEX NUT	03393	4	1½"-6 HEX NUT	03393	4	1½"-6 HEX NUT	03426	4	2"-4% HEX NUT
12	03340	2	1" LOCK WASHER	03394	2	11/2" LOCK WASHER	03394	2	11/2" LOCK WASHER	03427	2	2" LOCK WASHER
13	02279	6	1/2"-13 x 21/2" LG HHCS	03285	6	%"-11 x 21/2"LG HHCS	01109	6	%"-11 x 3"LG HHCS	01037	10	34"-10 x 3"LG HHCS
14	01227	1	1"-8 x 7"LG HHCS	03348	1	11/4"-7 x 9"LG HHCS	03345	1	114"-7 x 9"LG HHCS A-325	03425	1	134"-5 x 11"LG HHCS
15	23328	1	END OF BEAM BRACKET	23361	1	END OF BEAM BRACKET	23380	1	END OF BEAM BRACKET	53401	1	END OF BEAM BRACKET
16	03289	6	½"-13 HEX NUT	03287	6	5/6"-11 HEX NUT	03287	6	%"-11 HEX NUT	03300	10	4"-10 HEX NUT
17	03291	6	1/2" LOCK WASHER	03286	6	%" LOCK WASHER	03286	6	"s" LOCK WASHER	03373	10	" LOCK WASHER
18	03290	6	1/2" BEVEL WASHER	03375	6	5'8" BEVEL WASHER	03375	6	58" BEVEL WASHER	03428	10	4" BEVEL WASHER
19	03287	4	%"-11 HEX NUT	03300	4	3/4"-10 HEX NUT	03300	4	4"-10 HEX NUT	03300	6	¾"-10 HEX NUT
20	03286	4	%" LOCK WASHER	03373	4	34" LOCK WASHER	03373	4	"LOCK WASHER	03373	6	34" LOCK WASHER
21	53336	1	LOWER PIVOT ASSEMBLY	53359	1	LOWER PIVOT ASSEMBLY	53391	1	LOWER PIVOT ASSEMBLY	53410	1	LOWER PIVOT ASSEMBLY
22	03346	4	%"-11 x 1%"LG HHCS	03371	4	34"-10 x 21/2"LG HHCS	03371	4	3/4"-10 x 21/2"LG HHCS	01037	6	1/4"-10 x 3"LG HHCS
23	4110110	1	HARDWARE KIT*	4110120	1	HARDWARE KIT*	4110130	1	HARDWARE KIT*	4110150	1	HARDWARE KIT *

\*Note: Item 23 consists of Item No. 11, 12, 13, 16, 17, 18, 19, 20, and 22. Item No. 23 not shown.

1. LUBRICATION — Renew grease in upper and lower pivot assemblies every six (6) months with Lubriplate no. 630-AA or equivalent

SUGGESTED MAINTENANCE -

- 2. ADJUSTMENTS Check: Level of boom and tighten all hardware every three (3) months
- 3. INSPECTION ——Every six (6) months perform general check



#### Acco Babcock Inc.

A Babcock International company

Material Handling Group

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